MySQL Performance Tuning

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There are a couple of things that can be done to ensure that your MySQL database is running as fast as it can. Besides making sure that your server is in good shape and that it has the resources necessary for supplying data to your web site/server, you can fine tune it's performance a little by reviewing the following items. **Customizing Antivirus Scanning Rules** MySQL maintains the database data in a data folder It is possible that your antivirus software is scanning the data folders or the temp folders and slowing down the data transfer for the database. To make sure this isn't a problem you must first determine where your data and temp folders are located. MySQl often creates temporary tables to handle more complicated queries. These temp tables are normally created in the Windows temp folder by default. But to be sure you need to look through the "my.ini" file to determine where these folders are located. The "my.ini" file is usually located under the main installation file for MySQL. Typically "c:\MySQL5\". For older version of MySQL it could also be located in the "system" folder or on the root drive. This is also the order that MySQL looks for the "my.ini" file so try to locate the first "my.ini" file you can find in that order (Install Path first, System path next then the Root path). Open the "my.ini" file in Notepad or some other simple text editor. Now locate the "datadir=" value. This is the primary storage location path for the database files. Remember this path for later. Now locate the "tmpdir=" value. It may not exist. If it doesn't then your system is using one of the Windows temp folders. You can add it under the "datadir" value by adding the following line:

```
tmpdir="C:/MySQL5/Data"
```

 You can add it anywhere, but it would make sense to add it to the same location as your database folders so that you need only specify a single directory when setting up the antivirus settings to bypass this folder. Now, using these 2 directories, edit your antivirus program to not include these folders in the normal real-time scan. This will cause your antivirus software to stop scanning these directories in real-time and should speed up the data transfer to your web site/server. **Ensuring database default consistancy** The other item in the 'my.ini" file that is commonly configured improperly is the default temp table format. This is also found in the "my.ini" file that was mentioned above. Locate the "default-storage-engine=" value in the "my.ini" file. This should be set to:

```
default-storage-engine=MYISAM
```

 It is common for it to be set to another value. This causes a slow temporary table creation because the format is different thatn the normal tabels that are created with our applications. Changing this value to be consistant should have a significant impact on performance.

 Custom Fields Applicable To: All Users**Attachments: No****Summary:** MySQL Performance Tuning

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